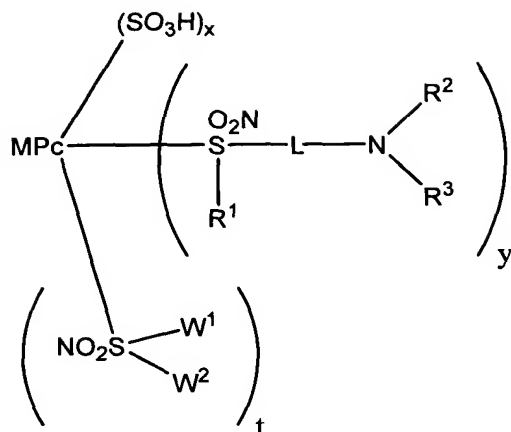


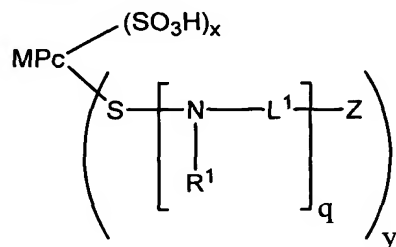
Claims

What is claimed is:

1. A direct light imaging compound comprising:
a matrix, and
an antenna,
wherein the antenna comprises a compound selected from the group consisting of compounds comprising a phthalocyanine chromophore and compounds comprising a naphthalocyanine chromophore, and
wherein the antenna is dissolved in the matrix.
2. The compound of claim 1 further comprising:
a color former, and
an activator,
wherein one of the activator and the color former is soluble in the matrix or matrix precursor at ambient conditions;
wherein the soluble of the activator and the color former is dissolved in the matrix; and
wherein the other of the activator and the color former is substantially uniformly distributed in the matrix.
3. The compound of claim 1 wherein the antenna comprises a compound chosen from the group consisting of (A) silicon 2,3 naphthalocyanine bis(trihexylsilyloxy); (B) derivatives of 2,3 naphthalocyanine; (C) derivatives of silicon phthalocyanine; (D) derivatives of benzophthalocyanines; (E)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; R^1 , R^2 , W^1 , and W^2 are independently H or optionally substituted alkyl, aryl, or aralkyl; R^3 is an aminoalkyl group; L is a divalent organic linking group; x, y, and t are each independently 0.5 to 2.5; and (x+y+t) is from 3 to 4; (F)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; each R^1 independently is H or an optionally substituted alkyl, aryl, or aralkyl; each L^1 independently is a divalent organic linking group; Z is an optionally substituted piperazinyl group; q is 1 or 2; x and y each independently have a value of 0.5 to 3.5; and (x+y) is from 2 to 5; and (G) 800NP.

4. The compound of claim 1 wherein the antenna is designed to readily absorb laser radiation of a predetermined frequency.
5. The compound of claim 1 wherein the antenna is designed to readily absorb infrared radiation of a predetermined frequency.
6. A method for preparing a direct imaging material, the method comprising:

providing a binder, a dye, a color developer, and an antenna,

wherein the antenna is soluble in the binder and selected from the group consisting of compounds comprising a phthalocyanine chromophore and compounds comprising a naphthalocyanine chromophore;

wherein the dye changes color when reacted with the color developer; and

wherein one of the dye and the color developer is soluble in the binder at ambient conditions;

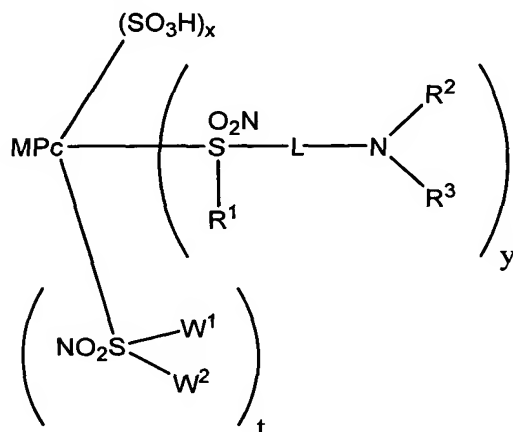
dissolving the antenna and the binder soluble compound in the binder; and

substantially uniformly distributing the other of the dye and the color developer compound in the binder.

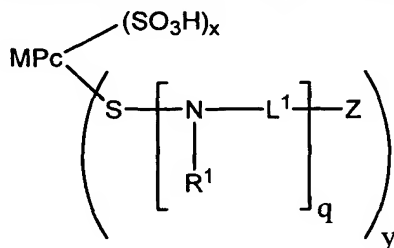
7. The method of claim 6 wherein the antenna is designed to readily absorb infrared radiation of a predetermined frequency.

8. The method of claim 6 wherein the antenna is designed to readily absorb laser radiation of a predetermined frequency.

9. The method of claim 6 wherein the antenna is selected from the group consisting of (A) silicon 2,3 naphthalocyanine bis(trihexylsilyloxy); (B) derivatives of 2,3 naphthalocyanine; (C) derivatives of silicon phthalocyanine; (D) derivatives of benzophthalocyanines; (E)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; R^1 , R^2 , W^1 , and W^2 are independently H or optionally substituted alkyl, aryl, or aralkyl; R^3 is an aminoalkyl group; L is a divalent organic linking group; x, y, and t are each independently 0.5 to 2.5; and (x+y+t) is from 3 to 4; (F)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; each R^1 independently is H or an optionally substituted alkyl, aryl, or aralkyl; each L^1 independently is a divalent organic linking group; Z is an optionally substituted piperazinyl group; q is 1 or 2; x and y each independently have a value of 0.5 to 3.5; and (x+y) is from 2 to 5; and (G) 800NP.

10. An image recording medium, the medium comprising:
 - a substrate; and
 - an imaging composition comprising, an antenna and a solvent,
 - wherein the antenna comprises a compound selected from the group consisting of compounds comprising a phthalocyanine chromophore and compounds comprising a naphthalocyanine chromophore, and
 - wherein the antenna is dissolved in the solvent.
11. The image recording medium of claim 10 wherein the imaging composition further comprises:
 - a dye; and a color initiator;
 - wherein the dye changes color when mixed with the color initiator;
 - wherein one of the color initiator and the dye is soluble in the solvent at ambient conditions;
 - wherein the other of the color initiator and the dye is substantially insoluble in the solvent at ambient conditions;

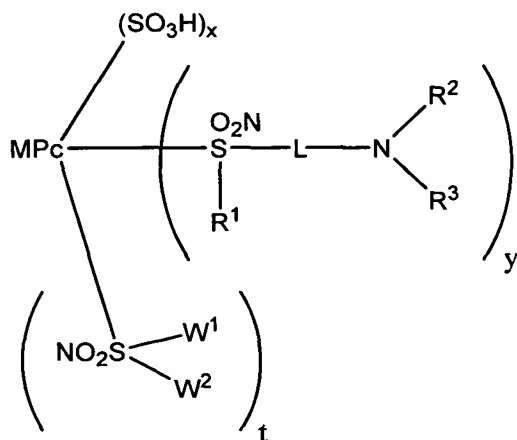
wherein the substantially insoluble component is substantially uniformly distributed in the solvent; and

wherein the imaging composition is directly or indirectly applied to the substrate.

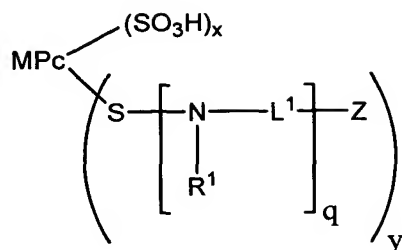
12. The medium of claim 11 wherein the antenna readily absorbs infrared radiation of a predetermined frequency.

13. The medium of claim 11 wherein the antenna readily absorbs laser radiation of a predetermined frequency.

14. The medium of claim 11 wherein the antenna is selected from the group consisting of (A) silicon 2,3 naphthalocyanine bis(trihexylsilyloxyde); (B) derivatives of 2,3 naphthalocyanine; (C) derivatives of silicon phthalocyanine; (D) derivatives of benzophthalocyanines; (E)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; R^1 , R^2 , W^1 , and W^2 are independently H or optionally substituted alkyl, aryl, or aralkyl; R^3 is an aminoalkyl group; L is a divalent organic linking group; x, y, and t are each independently 0.5 to 2.5; and (x+y+t) is from 3 to 4; (F)



where M is a metal or hydrogen; Pc is a phthalocyanine nucleus; each R¹ independently is H or an optionally substituted alkyl, aryl, or aralkyl; each L¹ independently is a divalent organic linking group; Z is an optionally substituted piperazinyl group; q is 1 or 2; x and y each independently have a value of 0.5 to 3.5; and (x+y) is from 2 to 5; and (G) 800NP.

15. The medium of claim 11 wherein the substrate comprises paper.
16. The medium of claim 11 wherein the substrate comprises a compact disc or DVD.
17. An imaging means, the means comprising:
 - a means for absorbing energy;
 - a means for forming color;
 - a means for initiating a color change in the color forming means;
 - a means for binding the absorbing means, the color forming means, and the initiating means;
 - wherein the absorbing means is dissolved in the binder;
 - wherein one of the means for forming color and the means for initiating is soluble in the means for binding at ambient conditions;
 - wherein the other of the means for forming color and the means for initiating is substantially insoluble in the means for binding at ambient conditions; and
 - wherein the insoluble component is substantially uniformly distributed in the binder.

18. The means of claim 17 wherein the means for absorbing readily absorbs laser radiation of a predetermined frequency.

19. The means of claim 18 wherein the means for absorbing readily absorbs infrared radiation of a predetermined frequency.